

**PCT**

**NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
US Department of Commerce  
United States Patent and Trademark  
Office, PCT  
2011 South Clark Place Room  
CP2/5C24  
Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as elected Office

<b>Date of mailing (day/month/year)</b> 09 July 2001 (09.07.01)	<b>Applicant's or agent's file reference</b> H.S.A.D. 351
<b>International application No.</b> PCT/EP00/10229	<b>Priority date (day/month/year)</b> 14 October 1999 (14.10.99)
<b>International filing date (day/month/year)</b> 12 October 2000 (12.10.00)	
<b>Applicant</b> BASTIAANS, Eduard, Antonius	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
30 April 2001 (30.04.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b> Nestor Santesso Telephone No.: (41-22) 338.83.38
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**PCT**

From the INTERNATIONAL BUREAU

**NOTIFICATION OF THE RECORDING  
OF A CHANGE**

(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

To:

HOLLANDSE SIGNAALAPPARATEN B.V.  
Patent Department  
P.O. Box 42  
NL-7550 GD Hengelo  
PAYS-BAS

<b>Date of mailing (day/month/year)</b> 17 août 2001 (17.08.01)	<b>IMPORTANT NOTIFICATION</b>
<b>Applicant's or agent's file reference</b> H.S.A.D. 351	
<b>International application No.</b> PCT/EP00/10229	<b>International filing date (day/month/year)</b> 12 octobre 2000 (12.10.00)

<b>1. The following indications appeared on record concerning:</b> <input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative								
<b>Name and Address</b> HOLLANDSE SIGNAALAPPARATEN B.V. Zuidelijke Havenweg 40 P.O. Box 42 NL-7550 GD Hengelo Netherlands	<b>State of Nationality</b> NL	<b>State of Residence</b> NL						
	<b>Telephone No.</b> 074 248 2308							
	<b>Facsimile No.</b> 074 248 4052							
	<b>Teleprinter No.</b>							
<b>2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:</b> <input type="checkbox"/> the person <input checked="" type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence								
<b>Name and Address</b> THALES NEDERLAND B.V. Zuidelijke Havenweg 40 P.O. Box 42 NL-7550 GD Hengelo Netherlands	<b>State of Nationality</b> NL	<b>State of Residence</b> NL						
	<b>Telephone No.</b> 074 248 2308							
	<b>Facsimile No.</b> 074 248 4052							
	<b>Teleprinter No.</b>							
<b>3. Further observations, if necessary:</b>								
<b>4. A copy of this notification has been sent to:</b> <table border="0"><tr><td><input checked="" type="checkbox"/> the receiving Office</td><td><input type="checkbox"/> the designated Offices concerned</td></tr><tr><td><input type="checkbox"/> the International Searching Authority</td><td><input checked="" type="checkbox"/> the elected Offices concerned</td></tr><tr><td><input checked="" type="checkbox"/> the International Preliminary Examining Authority</td><td><input type="checkbox"/> other:</td></tr></table>			<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned							
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned							
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:							

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b>  Beate Giffo-Schmitt  Telephone No.: (41-22) 338.83.38
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## PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION CONCERNING  
SUBMISSION OR TRANSMITTAL  
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

HOLLANDSE SIGNAALAPPARATEN B.V.  
Patent Department  
P.O. Box 42  
NL-7550 GD Hengelo  
PAYS-BAS

Date of mailing (day/month/year) 20 November 2000 (20.11.00)		
Applicant's or agent's file reference H.S.A.D. 351	IMPORTANT NOTIFICATION	
International application No. PCT/EP00/10229	International filing date (day/month/year) 12 October 2000 (12.10.00)	
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 14 October 1999 (14.10.99)	
Applicant HOLLANDSE SIGNAALAPPARATEN B.V. et al		

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
14 Octo 1999 (14.10.99)	1013296	NL	09 Nove 2000 (09.11.00)

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Marie-Thérèse Priser

Telephone No. (41-22) 338.83.38

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

9



Applicant's or agent's file reference H.S.A.D. 351		<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP00/10229	International filing date (day/month/year) 12/10/2000	Priority date (day/month/year) 14/10/1999	
International Patent Classification (IPC) or national classification and IPC H04N5/217			
Applicant Thales Nederland B.V.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
  - ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  30/04/2001	Date of completion of this report  17.01.2002
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Montanari, M  Telephone No. +49 89 2399 2602  

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/EP00/10229

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, pages:**

1-7 as originally filed

**Claims, No.:**

1-10 as originally filed

**Drawings, sheets:**

1/3-3/3 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/EP00/10229

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes:	Claims	3,7-10
	No:	Claims	1,2,4-6
Inventive step (IS)	Yes:	Claims	
	No:	Claims	3,7-10
Industrial applicability (IA)	Yes:	Claims	1-10
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

**VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/EP00/10229

The examination is being carried out on the following application documents:

Text for the Contracting States:

AT BE CH DE DK ES FI FR GB GR IT IE LI LU MC NL PT SE

**Description, pages:**

1-7 as originally filed

**Claims, No.:**

1-10 as originally filed

**Drawings, sheets:**

1/3-3/3 as originally filed

**1. Reference is made to the following documents:**

D1: EP-A-0 483 530 (ELTRO GMBH) 6 May 1992 (1992-05-06)

D2: WO 86 06214 A (IRVINE SENSORS CORP) 23 October 1986 (1986-10-23)

**2. Claim 1**

Document D1 discloses an IR radiation detection arrangement comprising compensation means for compensating an offset for individual elements (see column 1, lines 7 to 19), said compensation means comprising a displacement device (see figure 9, and column 7, lines 19 to 25) and means for compensating offset from at least two images with mutually divergent displacements (see column 3, line 52 to column 4, line 10).

Thus claim 1 does not meet the requirements of Article 33(2) PCT.

3. Dependent claims
  - 3.1 A "rotatably positioned plate", i.e. the subject-matter of claim 2 is also disclosed by D1 (see figure 9 and column 8, lines 24-28).
  - 3.2 A rotatably positioned plate having the additional feature set out in claim 3 is disclosed by D2 (see figure 13 and the relative description at page 22, lines 7-13).
  - 3.3 As far as the arrangement disclosed in D1 can be understood, it appears that the plate 20 shown in figure 9 is arranged parallel to the detector surface, i.e. perpendicular to the optical axis. In this case, the subject-matter of claims 4, 5 and 6 lacks novelty with respect to D1, figures 9 and 8.
  - 3.4 Thus the subject-matter of claims 2, 4, 5, and 6 lacks novelty (Article 33(2) PCT) and the subject-matter of claim 3 is considered to lack inventive step (Article 33(2) PCT).
  - 3.5 The additional features set out in the remaining dependent claims appear to be minor implementation details which are either known from the cited documents D1 and D2 or lie within the capabilities of the skilled person, and therefore they do not appear, at least for the time being, to add anything inventive to the subject-matter of the claims on which they depend.
4. The claims are not drafted in the proper two-part form (Rule 6.3(b) PCT) thereby respecting the cited prior art in the precharacterizing portion.
5. Reference signs in parentheses are not inserted in the claims to increase their intelligibility, Rule 6.2(b) PCT.
6. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.



# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>H.S.A.D. 351</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP 00/ 10229</b>	International filing date (day/month/year) <b>12/10/2000</b>	(Earliest) Priority Date (day/month/year) <b>14/10/1999</b>
Applicant <b>HOLLANDSE SIGNAALAPPARATEN B.V. et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1  
☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N5/217 H04N5/33

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	NL 1 003 131 C (TNO) 18 November 1997 (1997-11-18)  page 1, line 1 - line 25 page 3, line 7 -page 7, line 9 claims 1-3,5-8 ---	1-7 8-10
X	EP 0 483 530 A (ELTRO GMBH) 6 May 1992 (1992-05-06) column 1, line 1 - line 38 column 3, line 52 -column 4, line 50 column 5, line 32 - line 52 column 7, line 12 -column 9, line 8 ---	1,2,4-7
A	EP 0 928 104 A (SAMSUNG ELECTRONICS CO LTD) 7 July 1999 (1999-07-07) column 3, line 9 -column 4, line 1 --- -/--	4-6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

30 January 2001

Date of mailing of the international search report

06/02/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Wentzel, J

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 86 06214 A (IRVINE SENSORS CORP) 23 October 1986 (1986-10-23) page 7, line 13 -page 8, line 12 page 22, line 7 -page 24, line 23 ----	1,2
A	WO 98 26582 A (RAYTHEON TI SYST INC) 18 June 1998 (1998-06-18) page 3, line 22 -page 6, line 29 page 7, line 8 -page 11, line 31 ----	1,6-10
A	DE 33 23 956 C (BODENSEEWERK GERÄTE-TECHNIK GMBH) 5 January 1984 (1984-01-05) ----	
A	EP 0 680 206 A (THOMSON CSF) 2 November 1995 (1995-11-02) -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/10229

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
NL 1003131	C	18-11-1997	NONE		
EP 0483530	A	06-05-1992	DE 4034488 C		26-09-1991
			DE 4039577 A		17-06-1992
			DE 59107923 D		18-07-1996
EP 0928104	A	07-07-1999	JP 11234577 A		27-08-1999
WO 8606214	A	23-10-1986	EP 0216924 A		08-04-1987
			US 4806761 A		21-02-1989
WO 9826582	A	18-06-1998	AU 5459498 A		03-07-1998
			AU 5593998 A		03-07-1998
			EP 0941602 A		15-09-1999
			WO 9825931 A		18-06-1998
			US 6011584 A		04-01-2000
DE 3323956	C	05-01-1984	DE 3476146 D		16-02-1989
			EP 0133890 A		13-03-1985
			US 4633317 A		30-12-1986
EP 0680206	A	02-11-1995	FR 2719435 A		03-11-1995

## PATENT COOPERATION TREATY

## PCT

NOTICE INFORMING THE APPLICANT OF THE  
COMMUNICATION OF THE INTERNATIONAL  
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

HOLLANDSE SIGNAALAPPARATEN B.V.  
Patent Department  
P.O. Box 42  
NL-7550 GD Hengelo  
PAYS-BAS

Date of mailing (day/month/year) 19 April 2001 (19.04.01)		IMPORTANT NOTICE	
Applicant's or agent's file reference H.S.A.D. 351			
International application No. PCT/EP00/10229	International filing date (day/month/year) 12 October 2000 (12.10.00)	Priority date (day/month/year) 14 October 1999 (14.10.99)	
Applicant HOLLANDSE SIGNAALAPPARATEN B.V. et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:  
AU,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:  
BR,CA,CN,CZ,EP,HU,ID,IL,IN,JP,MX,NO,NZ,PL,RU,SG,TR,UA,ZA

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on  
19 April 2001 (19.04.01) under No. WO 01/28233

**REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)**

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

**REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))**

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
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